

Curriculum Vitae Dr Suchitra Sanasam



Personal details

1.	Name	<i>DR. SUCHITRA SANASAM</i>
2	Father's Name	<i>SANASAM NABAKUMAR</i>
3	Mother's Name	<i>NAOREM TAMPHAIBEMA DEVI</i>
4	Present Occupation	<i>ASSISTANT PROFESSOR (BIOCHEMISTRY) DEPARTMENT OF CHEMISTRY PRAVABATI COLLEGE , MAYANGIMPHAL, MANIPUR</i>
5	Date of Joining	<i>04-06-2020</i>
6	Date of Birth	<i>27-03-1979</i>
7	Gender	Female
8	Nationality	Indian
9	Permanent Address	<i>URIPOK KANGCHUP ROAD LAMBOIKHONGNANGKHONG NEAR CHORUS IMPHAL WEST – 795 003, MANIPUR</i>
9.	E-mail	<u>suchitra.sanasam@gmail.com</u>
10	Contact No.	<i>+91 9862 028 702 (Mobile)</i>
11	Research Experience	5 Years (After submitting PhD)
12	Research Publications	15 nos. (10 International , 5 National) 1 Book chapter

Educational Qualification

Sl. No.	Examination/Degree Passed	Institution/Board	Division	Year Of Passing
1.	HSLC	Board of Secondary Education Manipur	I (62.33%)	1994
2.	AISSCE	CBSE	II (59.40)	1996
3.	B.Sc. (Hons. In Chemistry)	Manipur University	I (69.25%)	2000

4.	M.Sc. (Biochemistry)	Manipur University	I (65.41%)	2003
5.	PhD (Biochemistry)	Manipur University	-	2011

Research area:

Study of actinomycete diversity in Manipur and screening for antibiotics and other bioactivities.

Research experience:

1. Work as DBT-Research Associate in a DBT sponsored Project “**Establishment of State Biotech Hubs**” from August 2017 to March 2020 at **Advance Institutional Level Biotech Hub**, Imphal College.
2. Work as DBT-Research Associate in a DBT sponsored Project “**Establishment of State Biotech Hubs**” from May 2011 to March 2014 under the special program for North Eastern States in the Department of Biochemistry, Manipur University, Canchipur.
3. Work for 3 months as visiting studentship in **Institute of Microbial Technology (IMTECH)**, Chandigarh (a CSIR Lab) under DST-NE Scheme, Government of India during January 12 –April 24, 2009.

Peer-reviewed papers

1. **Sanasam S**, Bhaigyabati Th, Jessie G, Bag GC, Singh LR, Pukrambum PG (2020) Phytochemical profiling, antimicrobial activity and GC-MS analysis of *Allium odorum* L. collected from Ema market, Manipur. *Int J. Pharmacognosy and Phytochem Res.*12(3) 153-161; ISSN: 0975-4873.
2. Bhaigyabati Th, **Sanasam S**, Jessie G, Bag GC, Singh LR, Pukrambum PG (2020) Phytochemical profiling, antioxidant activity, antimicrobial activity and GC-MS analysis of *Ipomoea aquatica* Forsk collected from Ema market, Manipur. *J of Pharmacognosy and Phytochem.* 9(1) 2335-2342; ISSN: 2278-4136.

3. Jessie G, Bhaigyabati Th, **Sanasam S**, Bag G.C, Singh LR, Devi PG (2019). Chlorophyll content of some selected edible plants sourced from ima market, Manipur, India. *International J of Pharmacy and Biological Sciences*. 9(2) 1251-1259; ISSN 2230-7605.
4. Nimaichand S, **Sanasam S**, Zheng L-Q, Zhu W-Y, Yang L-L, Tang S-K, Ningthoujam DS, Li WJ (2013). *Rhodococcus canchipurensis* sp. nov., a novel actinomycete isolated from a limestone deposit site in Manipur, India. *International Journal of Systematic and Evolutionary Microbiology* 63, 114–118.
5. Ningthoujam, DS, **Sanasam S**, Mutum A. (2012). Characterization of p-nitrophenol degrading actinomycetes from Hundung limestone deposits in Manipur, India. *African Journal of Biotechnology*. 11 (44) 10210-10220.
6. **Sanasam S**, Nimaichand, S. Ningthoujam, D.S. (2011). Novel bioactive actinomycetes from a niche biotope, Loktak Lake, in Manipur, India. *Journal of Pharmaceutical Research*. 4: (2) 1707- 1710.
7. Ningthoujam, DS, **Sanasam S**, Nimaichand, S. (2011). Studies on Bioactive Actinomycetes in a niche Biotope, Nambul River in Manipur, India. *J.Microbial & Biochem Tech*. <http://dx.doi.org/10.4172/1948-5948.S6-001>.
8. **Sanasam, S.** and Ningthoujam, D.S. (2010). Screening of Local Actinomycete Isolates in Manipur for Anticandidal Activity. *Asian Journal of Biotechnology*, **2**: 139-145.
9. Tamreihao, K., **Sanasam, S.**, Nimaichand, S and Ningthoujam, D.S. (2010). Screening of indigenous Actinomycete isolates for biocontrol activities against rice fungal pathogens. *Journal of the Assam Science Society*. **51(2)**: 36-43.
10. **Sanasam, S.**, Nimaichand, S. and Ningthoujam, D.S.(2010). Isolation and characterization of a Streptomyces strain LS1-117 showing antibacterial especially anti - *S.aureus* activity. *Journal of the Assam Science Society*. **51(2)**: 69-75.

11. Ningthoujam, D.S., **Sanasam, S.** and Nimaichand, S. (2009). Screening of Actinomycetes Isolates from Niche Habitats in Manipur for Antibiotic Activity. *American Journal of Biochemistry and Biotechnology*, **5**: 221-225.
12. Ningthoujam, D., **Sanasam, S.** and Nimaichand, S. (2009). A *Streptomyces sindenensis* Strain LS1-128 Exhibiting Broad Spectrum Antimicrobial Activity. *Research Journal of Biological Sciences*, **4**: 1085-1091.
13. Ningthoujam, D.S., Kshetri, P., **Sanasam, S.** and Nimaichand, S. (2009). Screening, Identification of Best Producers and Optimization of Extracellular Proteases from Moderately Halophilic Alkalithermotolerant Indigenous Actinomycetes. *World Applied Sciences Journal*, **7**: 907-916.
14. Ningthoujam, D.S., **Sanasam, S.**, Tamreihao, K. and Nimaichand, S. (2009). Antagonistic activities of local actinomycete isolates against rice fungal pathogens. *African Journal of Microbiology*, **3**: 737-742.
15. **Sanasam, S.** and Ningthoujam, D. (2005) Diversity of Actinomycetes in selected soils of Manipur and their antibiotic potential. *Journal of Assam Science Society*, **45**: 44-47.

Book chapter

1. Environment Impact Assessment of COVID-19 (September 2020) . Bhaskar Jyoti Deka, Varsha Bohra, Wazir Alam, **Suchitra Sanasam**, 4 Jiabin Guo, Lalit Borana, and Alicia Kyoungjin An. In Integrated Risk of Pandemic: Covid-19 Impacts, Resilience and Recommendations, Disaster Resilience and Green Growth, https://doi.org/10.1007/978-981-15-7679-9_8. (pg 169-195). License to Springer Nature Singapore Pte Ltd. 2020 M. K. Goyal, A. K. Gupta (eds.),

Seminars/ Conferences/ Workshops attended:

1. National Seminar on Fishery, Aquatic Bioresources and Sustainable Development, Department of Life Sciences, Manipur University, January 28-29, 2005.
2. International Conference on Microbial Diversity: Current Perspectives and Potential

Applications, UDSC, Delhi, Apr 16-18, 2005.

3. 1st Annual Conference cum CME in Clinical Chemistry & Laboratory Medicine, Shillong, April 22-23, 2005
4. 5th Annual Conference Association of Clinical Biochemists of India (ACBI), Manipur State Branch, May 22, 2005
5. NEBA Conference, GU, Gauhati, June 17-18, 2005.
6. National Conference on Plant and Microbial Diversity, VBU, Shantiniketan, Dec 17-19, 2005.
7. Training Workshop on **“INTEGRATING IPR CULTURE WITH R&D”**, Orgd. by Corporation & DBT, GOI, New Delhi at IBSD, Imphal, Feb 15, 2006 and Regional Seminar on **“EMERGING SCENARIO OF PATENTS’ PROTECTION, VALUATION & COMMERCIALISATION”**, Orgd by Corporation & Patent Office, Kolkata at IBSD, Imphal, Feb 16, 2006
8. 47th Annual Conference of Association of Microbiologists of India (AMI), Barkatullah University, Bhopal (MP), Dec 6-8, 2006.
9. A Two Day Seminar on Environment and Biodiversity of Manipur: Issues and Concerns, Manipur University, Feb 24-25, 2007.
10. National Conference on Microbial Diversity: Avenues and Applications, SBSPGI, Dehradun, March 17-18, 2007.
11. National Seminar on Recent Advances in Life Sciences, Manipur University, March 23-24, 2007.
12. International Conference on New Horizons in Biotechnology (NHBT-2007), NIIST, Trivandrum (Formerly RRL Trivandrum), November 26-29, 2007.
13. 48th Annual Conference of Association of Microbiologists of India (AMI), IIT Madras,

Chennai, December 18-21, 2007.

14. XI Manipur Science Congress, Manipur University, March 27-29, 2008.
15. A Two day Seminar on the Present Scenario of Medicinal Plants in Manipur with particular reference to anti-cancer plants, Manipur University, July 24-25, 2008.
16. 3rd International Convention on Bioprocessing of Food and 5th Convention of Biotech Research Society of India, Osmania University, Hyderabad, Nov 6-8, 2008.
17. 49th Annual AMI Conference on Microbial Biotechnology: Diversity, Genomics and Metagenomics, Delhi University North Campus, Nov 18-20, 2008.
18. 96th Indian Science Congress, North-Eastern Hill University, Shillong, January 3-7, 2009.
19. 15th International Symposium on the Biology of Actinomycetes (ISBA'15), Shanghai Jiao Tong University, Shanghai, China, August 20-25, 2009.
20. 50th Annual Conference of AMI, National Chemical Laboratory (NCL), Pune and University of Pune, Pune, December 15-18, 2009.
21. Annual Technical Session , Assam Science Society, org. by Gauhati University, Guwahati during Feb 15, 2010 in Guwahati university
22. 51st Annual conference of AMI at BIT, Mesra, Ranchi, Jharkhand December 14-17, 2010.
23. International seminar on managing biodiversity for sustainable livelihood in the changing environment in marginal mountain regions NEHU, Shillong, December 21-23, 2010.
24. 51st Annual conference of AMI during Dec 14-17, 2010 at BIT, Mesra, Ranchi, Jharkhand.
25. Science Academies' sponsored workshop on Recent Advances in Biology, March 28-29, 2011, Manipur University, Canchipur.
26. 52nd Annual Conference of AMI during Nov 3-6, 2011 at Punjab University, Chandigarh.

27. Science Academies' sponsored workshop: Transferable skills for research scholars, April 4-5, 2012, Manipur University, Canchipur.
28. A three day workshop on "*PCR: Basic techniques and Applications*" April 26-28, 2012, Manipur University, Canchipur.
29. 53rd Annual Conference of AMI during November 21-24, 2012, School of Biotechnology, KIIT University, Bhubaneswar, Odisha.
30. Training program on entrepreneurship development for production of superior quality planting material using in vitro technology in Northeast, TERI University, December 2- 15, 2012.
31. Science Academies' sponsored workshop: *Recent Advances in Chemical Biology* (RACB-2014) March 24 - 26, 2014, Manipur University, Canchipur.
32. International Conference on "Sustainable Development and North East India in the Globalized Era" December 29-30, 2017, organized by FGOCTA in partnership with D.M College of Arts, Imphal, G.P. Women's College, Imphal and IBSD, Imphal.
33. 105th Indian Science Congress and 7th Women's Science Congress, March 16-20, 2018, Manipur University, Canchipur.
34. Two Day National Seminar on "an Autonomous College: Problems and Prospects" June 29 - 30, 2018, Imphal College.
35. One month Skill Development training Program in Biotechnology for Students of north-East India , November 13-December 12, 2018, sponsored by IBSD, Imphal, jointly organized by Biotech Park, Lucknow & Institutional Advanced Level Biotech Hub, Imphal College, Imphal.
36. National Seminar on "Conservation and Commercialisation of Citrus Biodiversity in NEH Region. February 18- 19, 2021 at College of Agriculture, Imphal, Manipur.

Abstracts of oral papers:

1. *Diversity of rare actinomycetes in Loktak lake sediments: selective isolation, preliminary characterization, and bioactivity assay* National Conference on Plant and Microbial Diversity, VBU, Shantiniketan, Dec 17-19, 2005.
2. *Alkaliphilic Actinomycetes and their biotechnological potential: A preliminary screening in Loktak Lake, Manipur*, National Seminar on Recent Advances in Life Sciences, Manipur University, March 23-24, 2007.
3. *Isolation and characterization of thermophilic protease producing Bacillus species from garden soil in Manipur, India*, Thermophiles 2007, University of Bergen, Norway, Sept 24-27, 2007.
4. *A preliminary report on isolation and characterization of Actinomycete isolates obtained from Loktak Lake sediments*. XI Manipur Science Congress, Manipur University, March 27-29, 2008.
5. *Screening and Optimization Studies of native anticandidal Actinomycetes from Manipur (Indo-Burma Biodiversity Hotspot), India*, ISBA'15, Shanghai Jiao Tong University, China, August 20-25, 2009.
6. *Isolation and characterization of a Streptomyces strain LS1-117 showing antibacterial especially anti-S. aureus activity* Annual Technical Session , Assam Science Society, org. by Gauhati University, Guwahati , Feb 15, 2010.
7. *Isolation and characterization of high efficiency p-nitrophenol degrading bacteria from Biochemistry campus, Manipur University, Canchipur*, International seminar on managing biodiversity for sustainable livelihood in the changing environment in marginal mountain regions , NEHU, Shillong, December 21-23, 2010 .
8. *An overview of the phylum Actinobacteria*. BIOCON 13 Conference at Pachunga University College, Aizawl , Mizoram. March 7 – 8, 2013.

Abstracts of poster presentations

1. *Diversity of soil actinomycetes in selected biotopes of Manipur and screening for antibiotic activities*, International Conference, Microbial Diversity: Current perspectives & potential applications, Apr 16-18, 2005, Dept of Microbiology, UDSC, Delhi.
2. *Studies on antibacterial and antifungal activities of some local soil actinomycete isolates*, National Seminar on Biodiversity Conservation and Future Concern, Orgd. by North East Biotechnological Assn. (NEBA), Dept of Biotechnology, Gauhati Univ., Gauhati, June 17-18, 2005.
3. *Isolation, preliminary characterization and bioactivity assay of actinomycetes from various biotopes of Manipur*, 47th Annual AMI Conference, Barkatullah University, Bhopal, MP, Dec 6-8, 2006.
4. *Preliminary screening of actinomycete isolates from niche habitats in Manipur for Antibiotic activity*, National Conference on Microbial Diversity: Avenues and Applications, SBSPGI, Dehradun, March 17-18, 2007.
5. *Isolation and characterization of extracellular protease producing thermotolerant Bacillus species from sediments of Loktak Lake in Manipur, India*, Thermophiles 2007, University of Bergen, Norway, Sept 24-27, 2007.
6. *Survey of niche habitats in Manipur for antibiotic producing actinomycetes: I. Preliminary characterization and bioactivity assay of actinomycetes isolated from a local salt spring at Ningel, Manipur, India*, Intl. Conf. on NHBT-2007, NIIST, Trivandrum, Nov. 26-29, 2007.
7. *Actinomycete Biotechnology: Biotechnological potential of extremophilic and rare actinomycetes – An as-yet unexhausted treasure trove*, same as above.
8. *Biodiversity of bioactive metabolite producing actinomycetes in selected biotopes of Manipur, an underexplored zone of Indo-Burma Hotspot: an appraisal of preliminary survey done so far*, 48th Annual AMI Conference, IIT Madras, Chennai, Dec 18-21, 2007.

9. ***A Streptomyces sp.strain LSI-128 exhibiting broad spectrum antibacterial activity***, 3rd ICBF and 5th BRSI convention, Osmania University, Hyderabad, Nov 6-8,2008.
10. ***Studies of bioactive actinomycete diversity in Nambul River in Manipur***, same as above.
11. ***A report on Actinomycete isolates from various biotopes in Manipur and their bioactivities: Lake sediment, salt springs, caves, river sediments, forest and endophytic strains***, 49th Annual AMI Conference on Microbial Biotechnology: Diversity, Genomics and Metagenomics, DUNC, nov 18-20,2008.
12. ***Studies on endophytic actinomycete from indigenous plants in Manipur and screening for their bioactivities***, same as above.
13. ***Isolation of rare actinomycete using selective media and various pretreatment methods***, same as above.
14. ***Screening of actinomycete isolates from niche habitats in Manipur for antibiotic activity***, 96th Indian Science Congress, NEHU, Shillong, Jan 3-7, 2009.
15. ***Preliminary screening of PGPR isolates from rhizospheric soils of Indigenous rice plant (Oryza sativa) of Manipur***, First Asian PGPR Congress for Sustainable Agriculture, ANGRAU, Hyderabad, June 21-24, 2009.
16. ***Preliminary characterization of PGPR strains isolated from rhizospheric soils of Manipur***, same as above.
17. ***Screening and optimization of extracellular proteases from moderately thermophilic actinomycetes***, Thermophiles 2009, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China, August 16-21, 2009.
18. ***Screening of Indigenous Actinomycete Isolates for biocontrol Activity against Rice Phyttopathogens***, ISBA'15, Shanghai Jiao Tong University, China, August 20-25, 2009.
19. ***Diversity of Bioactive Actinomycetes in Various niche habitats of Manipur***, same as above.
20. ***Diversity of Actinomycetes in Wetlands of Manipur, India***, same as above.

21. *Isolation and characterization of Actinomycetes from Hundung Limestone Quarries, Manipur (India)*, 50th Annual AMI Conference, NCL Pune and University of Pune, December 15-18, 2009.
22. *Studies of Bioactive Actinomycete in Nambul River, Manipur, India*, same as above.
23. *Diversity of Rare Actinomycetes in Various Niche Habitats of Manipur*, same as above.
24. *Screening of Indigenous Actinomycetes Isolates for Phosphate Solubilization and Chitinase activity*, same as above
25. *Characterization of p-nitrophenol degrading actinomycete strains obtained from Hundung Limestone deposit sites, Manipur, India* 51st Annual conference of AMI at BIT, Mesra, Ranchi, Jharkhand. December 14-17, 2010
26. *Isolation and antimicrobial screening of actinomycetes from a limestone habitat at Hundung, Manipur*. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh
27. *Bioaugmentation studies for degradation of PNP in soil by a pseudomonas sp. strain BCP-1*. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh
28. *Studies on screening of actinomycetes in MBRL collection, Manipur University, for keratinolytic activity*. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh
29. *Screening of antimicrobial activity of actinomycete isolates from various habitats of Manipur*. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh
30. *Screening of antifungal activity of actinomycetes from different habitats of Manipur*. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh.
31. *Novel actinobacterial species from a limestone habitat in Hundung, Manipur, India*. 16th International symposium on the Biology of actinomycetes, Puerto Vallarta, Mexico December 11-15, 2011.
32. *Rhodococcus canchipurensis sp. nov., a novel actinobacterial species from a limestone*

habitat in Manipur, India. 16th International symposium on the Biology of actinomycetes, Puerto Vallarta, Mexico December 11-15, 2011.

- 33. Isolation and screening of endophytic and keratin waste decomposing soil actinomycetes and characterization of the bioactive strains.** 53rd Annual Conference of AMI during November 21-24, 2012, School of Biotechnology, KIIT University, Bhubaneswar, Odisha.
- 34. Development of formulation of the *Streptomyces* sp. N3-3b for the plant growth promotion and biocontrol activities of the rice plant in Manipur.** 53rd Annual Conference of AMI during November 21-24, 2012, School of Biotechnology, KIIT University, Bhubaneswar, Odisha.
- 35. Isolation and screening of Endophytic actinomycetes from medicinal plants.** 53rd Annual Conference of AMI during November 21-24, 2012, School of Biotechnology, KIIT University, Bhubaneswar, Odisha.
- 36. Extraction and estimation of chlorophyll content of 14 selected plant species collected from Ima Market, Manipur.** 105th Indian Science Congress during March 16-20, 2018, Manipur University, Canchipur, Imphal
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Declaration

I hereby declared that all the statements made above by me are true to the best of my knowledge..

Dr Suchitra Sanasam
Assistant Professor (Biochemistry)
Department Of Chemistry
Pravabati College, MayangImphal
Manipur